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APPLIGATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/007,256	11/11/2001	Susan Sebata	PA-Y0065	7881	
7.	590 10/10/2002				
Joyce Kosinski			EXAMINER		
Suite 303	d Communications, Ltd.		DINH, TIE	DINH, TIEN QUANG	
655 Deep Valle	ey Drive states, CA 90274		ART UNIT PAPER NUMBER 3644		
rtoning rimo 2					
DATE MAILED: 10/10/2002				!	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	1			
	10/007,256	SEBATA ET AL.	h			
Office Action Summary	Examiner	Art Unit				
	T. Dinh	3644				
The MAILING DATE of this communication app Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠ Responsive to communication(s) filed on 06 A	August 2002 .					
2a)⊠ This action is FINAL . 2b)□ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-3</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37. CER 1.85(a)						
11)☐ The proposed drawing correction filed on	is: a) approved b) disap					
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	s have been received in Applic	cation No				
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s). nal Patent Application (PTO-1				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Drolen in view of Aston et al and Nakamura et al.

Drolen et al discloses a spacecraft radiator system having a first and second opposite facing payload radiators, one or more deployable radiators and heat pipes that thermally couple the payload radiators to selected ones of the deployable radiators but lacks the solar arrays and is silent on the heat pipes being thermally coupled to a payload radiator and to a radiator panel on an opposite side of the payload radiator.

However, Aston et al discloses that solar arrays are well known in the art.

Furthermore, Nakamura et al teaches heat pipes that are used to couple two radiator panels that are on opposite sides are well known in the art.

It would have been obvious to one skilled in the art at the time the invention was made to have used solar panels in Drolen et al's system as taught by Aston et al to generate more electrical power. Please note that the method claim is met by the apparatus. Further, it would have been obvious to one skilled in the art at the time the invention was made to have used heat pipes to couple the payload radiators to the deployable panel(s) on the opposite side in Drolen et al's system as taught by

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Nakamura et al to efficiently control the temperature of the satellite (by transferring heat to the cooler side away from the sun) to prevent damages to onboard equipments.

Response to Arguments

The Examiner has included the teaching of Nakamura et al to anticipate the new claimed subject matters.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Byrd teaches transferring heat to the other side.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. Dinh whose telephone number is 703-308-2798.

The examiner can normally be reached on Monday Through Friday 8-6, alternate Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Jordan can be reached on 703-306-4159. The fax phone numbers for the organization where this application or proceeding is assigned are 703-306-4195 for regular communications and 703-306-4195 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-4177.

T. Dinh Examiner Art Unit 3644

TD October 7, 2002

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